



PUBLIC SAFETY SPACE NEEDS ASSESSMENT
BOXBOROUGH, MASSACHUSETTS
JANUARY 20, 2015

AGENDA

- Programming
 - Shared
 - Police Department
 - Fire Department
 - Site Requirements
- Conceptual Options: Test Fits
 - Stand alone facilities
 - Renovation and addition
 - New combined public safety facility
- Next Steps
 - Engineering Support
 - Cost



PROGRAMMING - BUILDING

	Gross Square Footage (GSF)
Shared / Town Spaces	6,426
Police Department	10,179
Fire Department	18,362
Shared Facility Total	34,967

- Shared / Town Spaces includes spaces such as:
 - Lobby
 - Training Room / EOC
 - Conference Room
 - Wellness / Fitness Room
 - Public Toilet Rooms, Mechanical and other support spaces
- If separate Police and Fire Stations are built, many of these spaces will be duplicated in each facility.

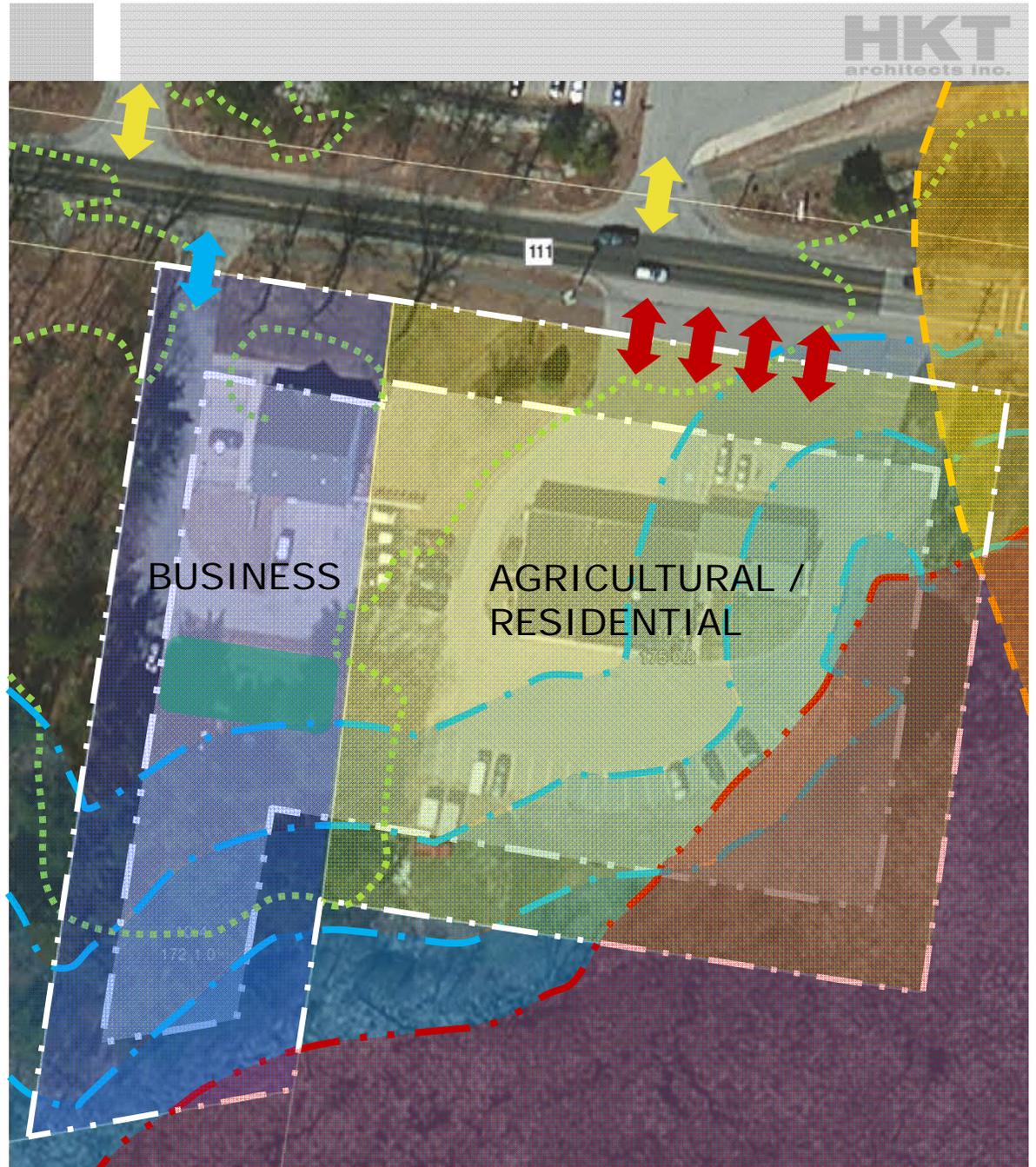
PROGRAMMING - SITE

	Parking Spaces
Town / Visitors	11
Police Department	27
Fire Department	21
Shared Facility Total	59

- Parking requirements take into consideration:
 - Staff parking needs during shift changes
 - Future staff parking needs
 - Typical number of call fire fighters reporting during event
 - Department owned vehicles and trailers
 - Visitors
- Currently there are 44 parking spaces on the existing site.

SITE

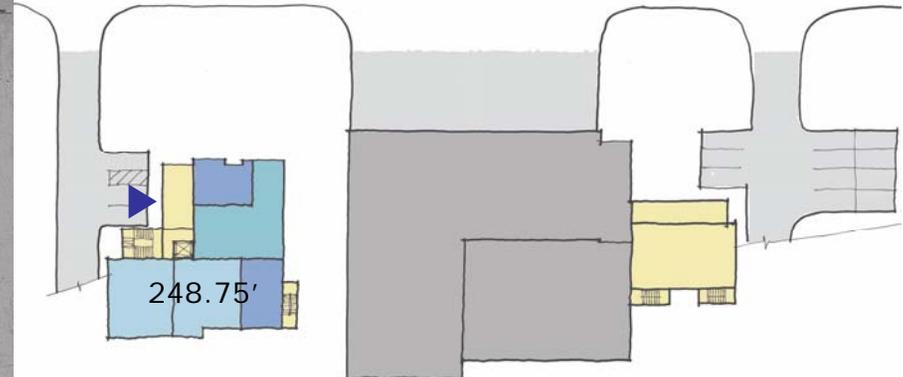
- Site Issues:
 - Zoning
 - Wetlands
 - Flood Zone
 - Stormwater Management
 - Protected Species
 - Septic Field
 - Topography
- Programming Findings:
 - 34,967 GSF Facility
 - 59 Parking Spaces



A – STAND ALONE PD & FD – MAJOR RENOVATIONS & ADDITIONS



FIRST FLR FD – LOWER FLR PD / SITE PLAN



ENTRY FLR PD – UPPER LEVEL FD

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

A – STAND ALONE PD & FD – MAJOR RENOVATIONS & ADDITIONS



FIRST FLR FD – LOWER FLR PD / SITE PLAN

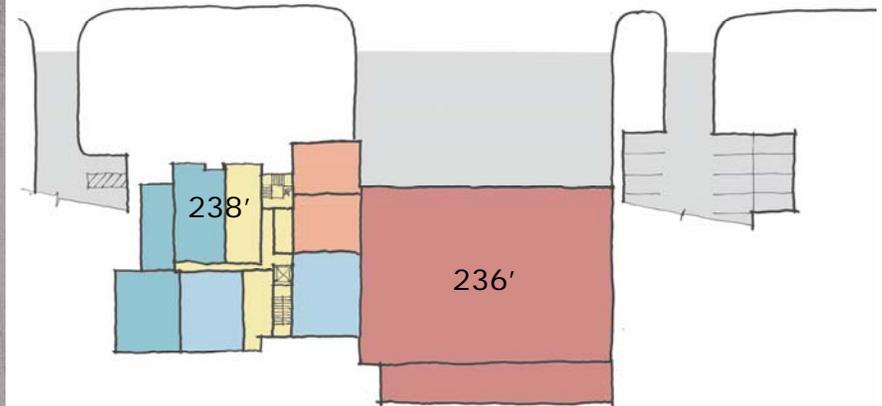
Objective: Reuse both buildings

- Major additions to both buildings
- PD Detention & Dispatch on different levels
- Shared Fitness: 2ND level of FD
- Shared Training: lower level of PD
- FD Apparatus at two elevations
- New drive at rear of PD into septic
- FD building remains in 50' wetland buffer
- Parking and driveways in buffers
- Parking Count: 41

B – REUSE PD & FD APPARATUS – MAJOR RENOVATIONS & ADDITIONS



FIRST FLR FD – UPPER LEVEL PD WITH SHARED ENTRY / SITE PLAN



LOWER LEVEL FD & PD

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

B – REUSE PD & FD APPARATUS – MAJOR RENOVATIONS & ADDITIONS

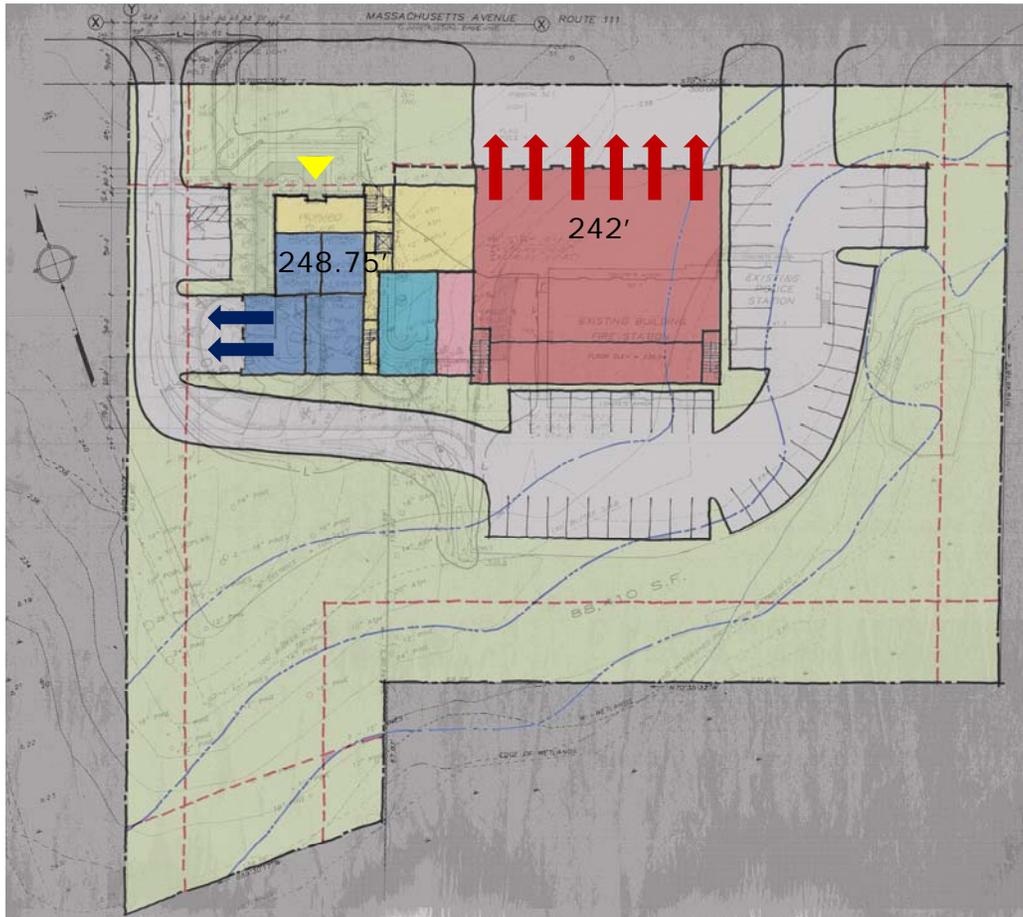


FIRST FLR FD – UPPER LEVEL PD WITH SHARED ENTRY / SITE PLAN

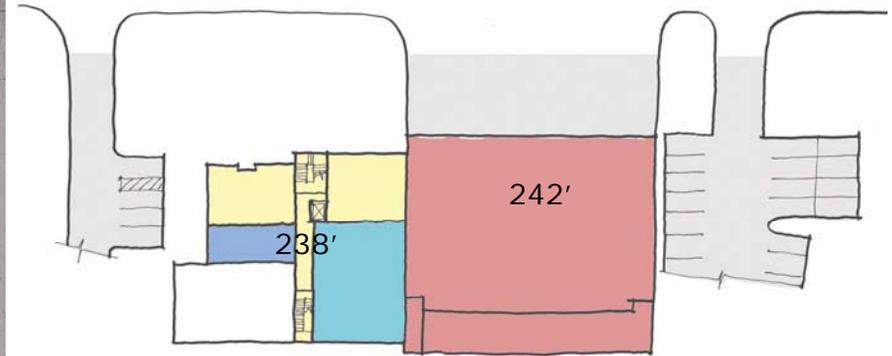
Objective: Combined facility & reuse part / all of both buildings

- Demolish portion of FD
- Major additions to both buildings
- PD Detention & Dispatch on same level
- Shared Training on entry level
- Administration spaces on lower level
- Only 2 end bays at Apparatus are preferred size
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 48

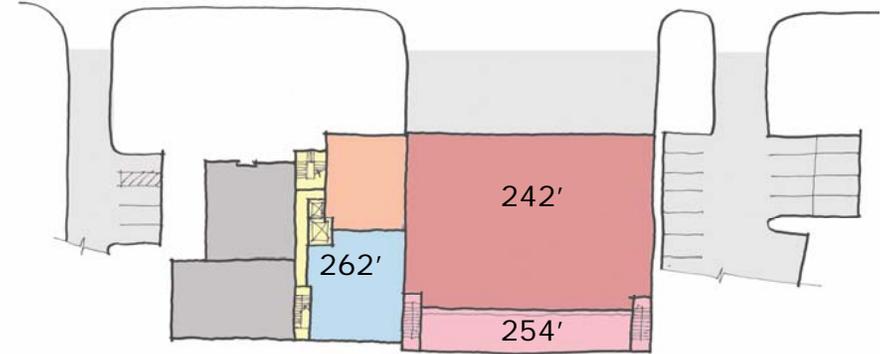
C – REUSE PD ONLY – MAJOR RENOVATIONS & ADDITIONS



FIRST FLR FD & UPPER LEVEL PD WITH SHARED ENTRY / SITE PLAN



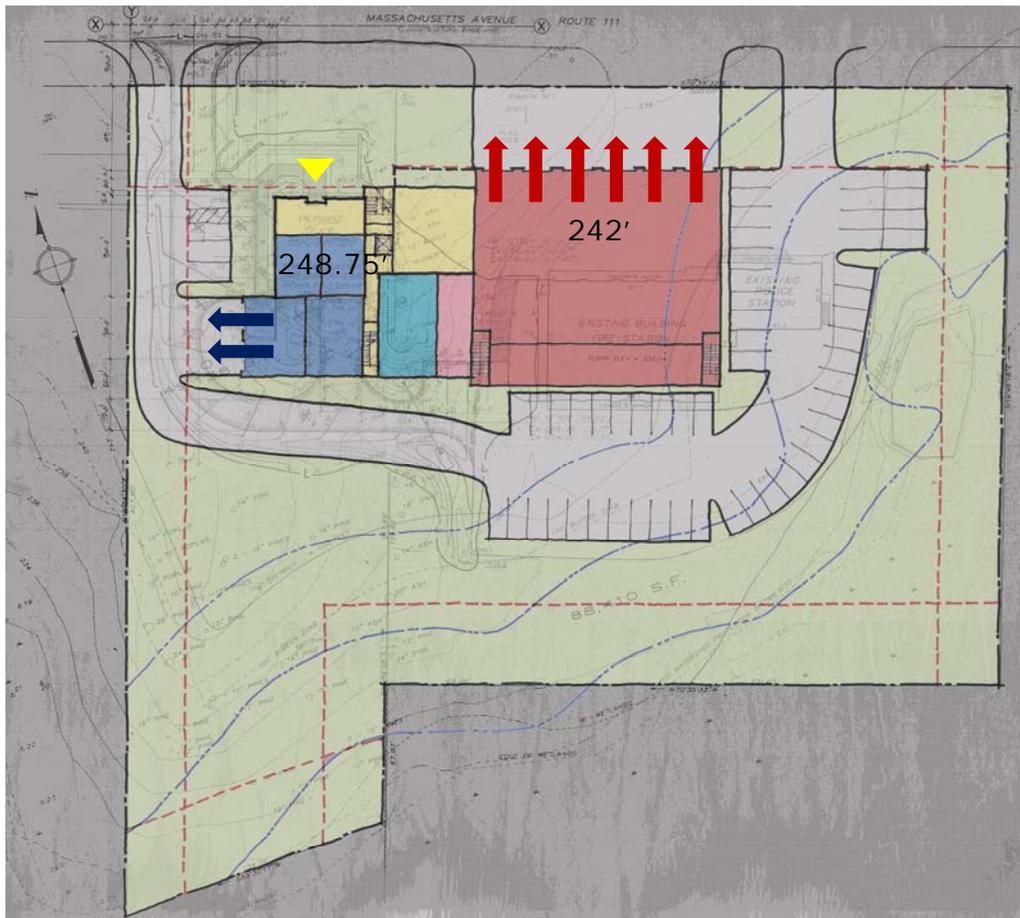
LOWER LEVEL



SECOND FLOOR

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

C – REUSE PD ONLY – MAJOR RENOVATION & ADDITIONS

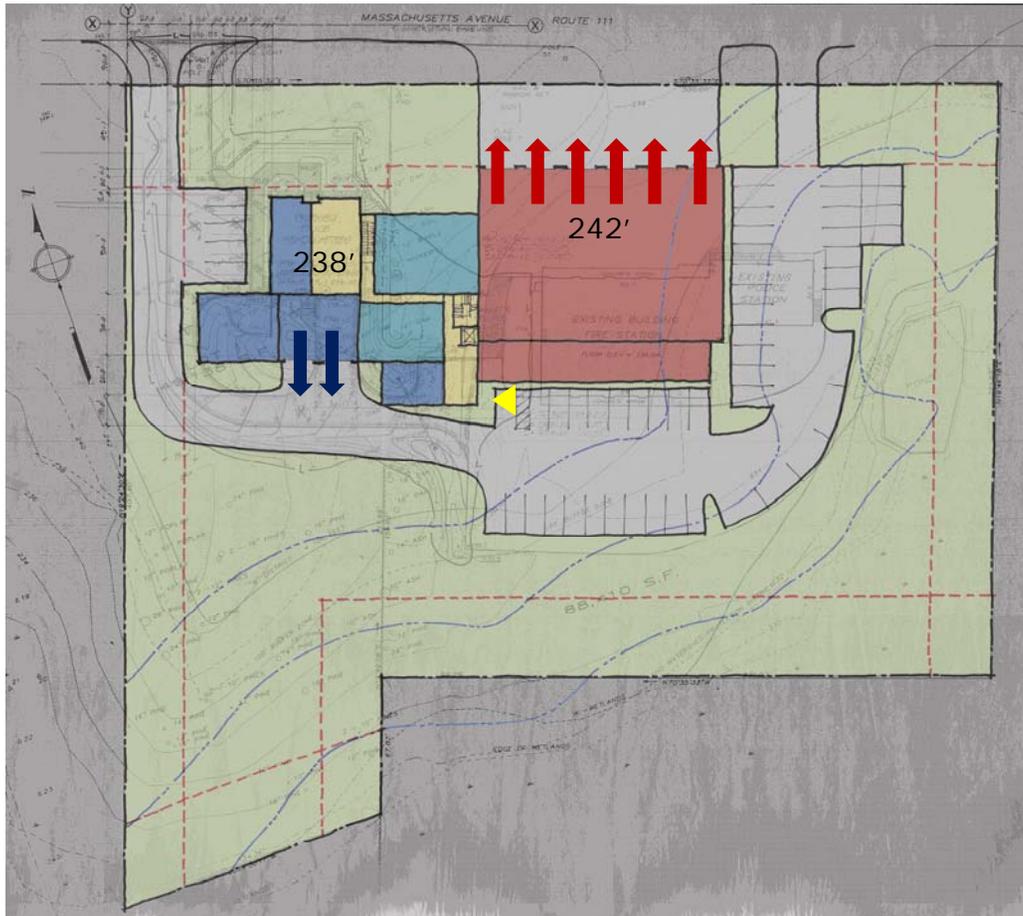


FIRST FLR FD & UPPER LEVEL PD WITH SHARED ENTRY / SITE PLAN

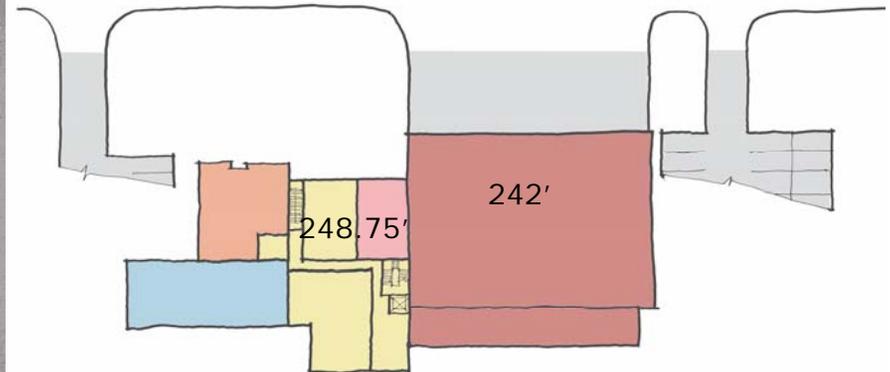
Objective: Combined facility & reuse PD building

- Demolish entire FD
- PD Detention & Dispatch on same level
- Training on Entry level
- Administration spaces are on uppermost level
- All Apparatus Bays are preferred size
- Additions are not in 50' buffer
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 57

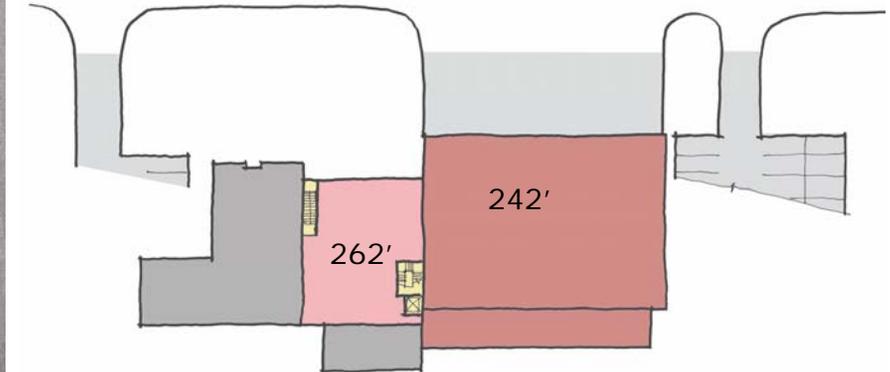
D – REUSE PD ONLY – MAJOR RENOVATIONS & ADDITIONS



FIRST FLR FD & LOWER LEVEL PD WITH SHARED ENTRY / SITE PLAN



FIRST FLOOR



SECOND FLOOR

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

D – REUSE PD ONLY – MAJOR RENOVATION & ADDITION

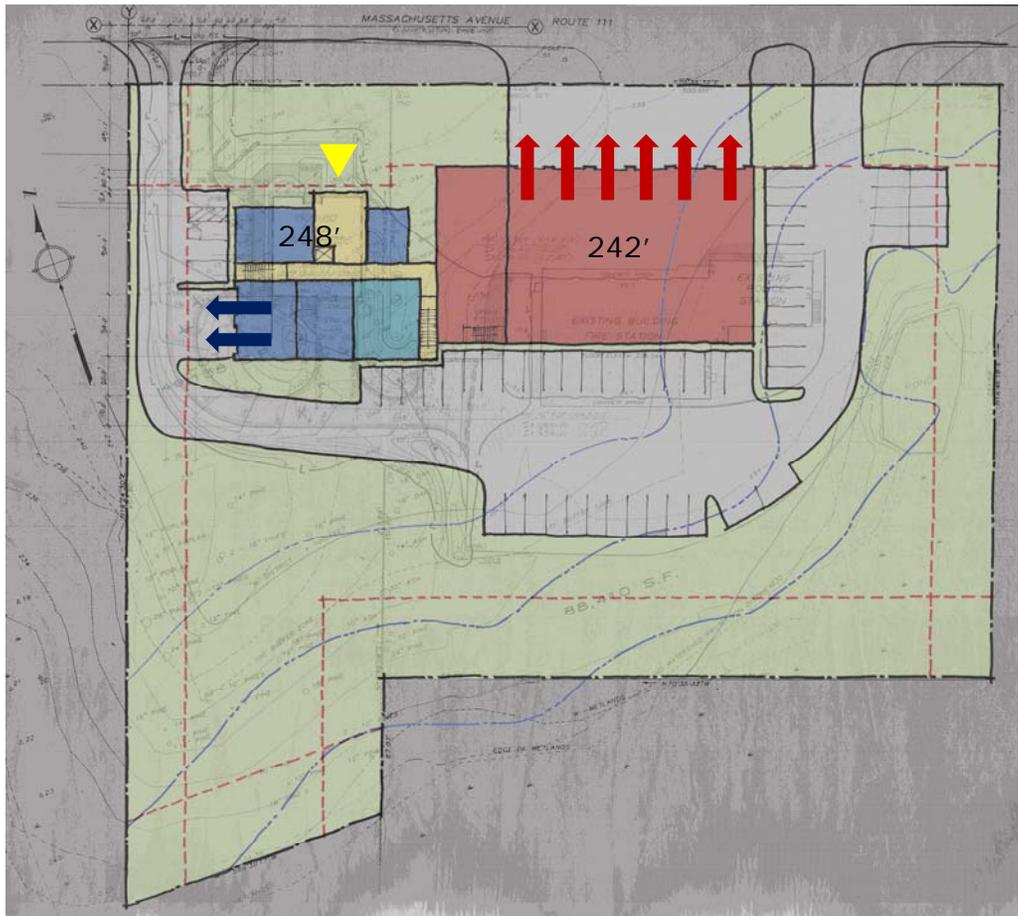


FIRST FLR FD & LOWER LEVEL PD WITH SHARED ENTRY / SITE PLAN

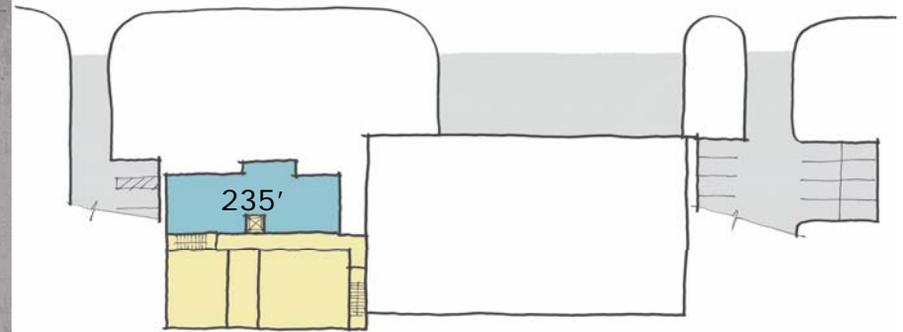
Objective: Combined facility & reuse PD building

- Demolish entire FD
- Public Entry at rear on lower level
- PD Detention & Dispatch on same level
- Training on first floor
- Administration is on first floor
- All Apparatus Bays are preferred size
- Additions are not in 50' buffer
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 54

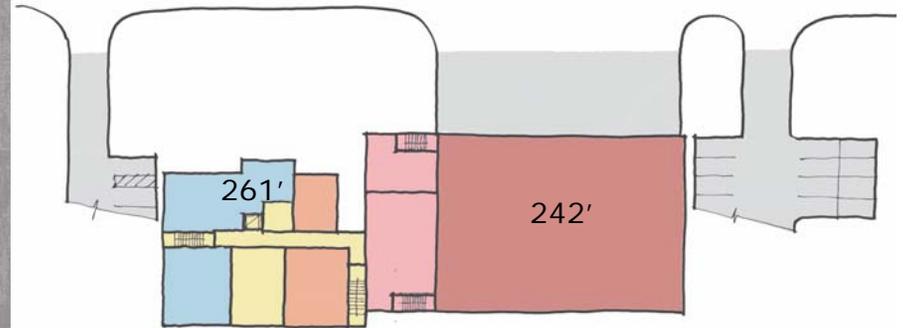
E – ALL NEW CONSTRUCTION ON THREE LEVELS



FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN



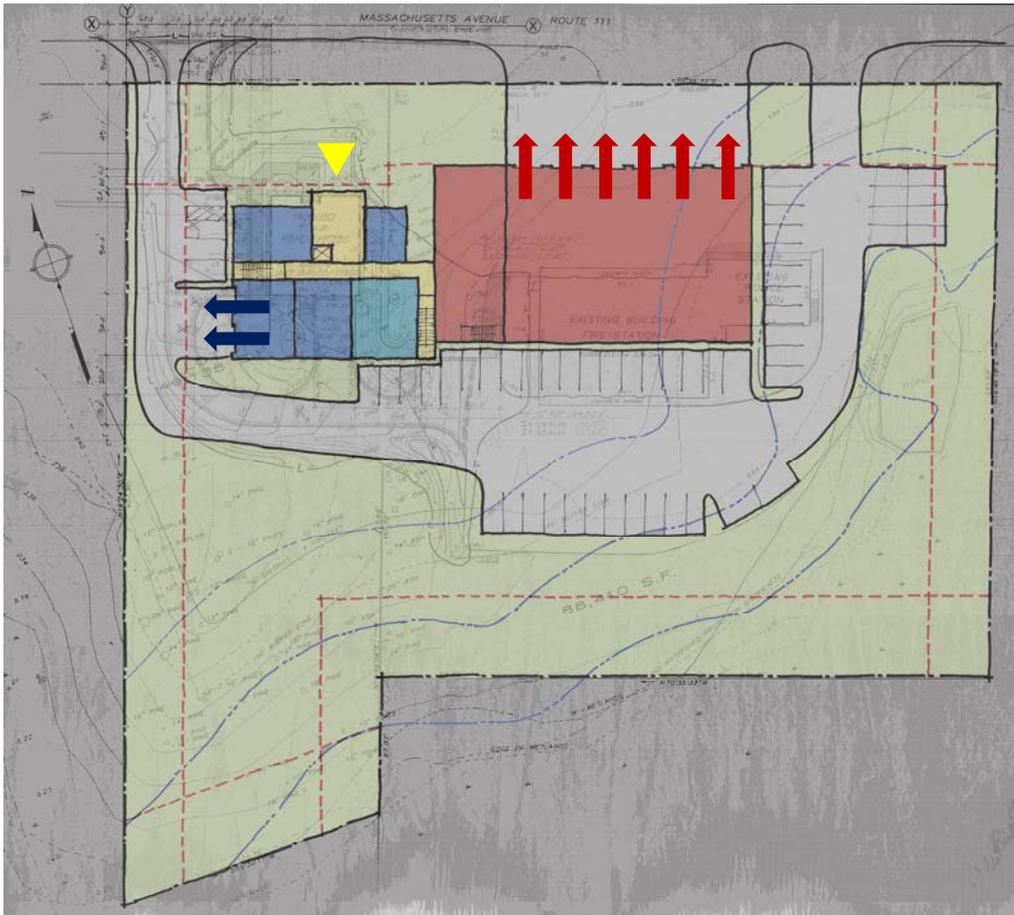
LOWER LEVEL



SECOND FLOOR

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

E – ALL NEW CONSTRUCTION ON THREE LEVELS

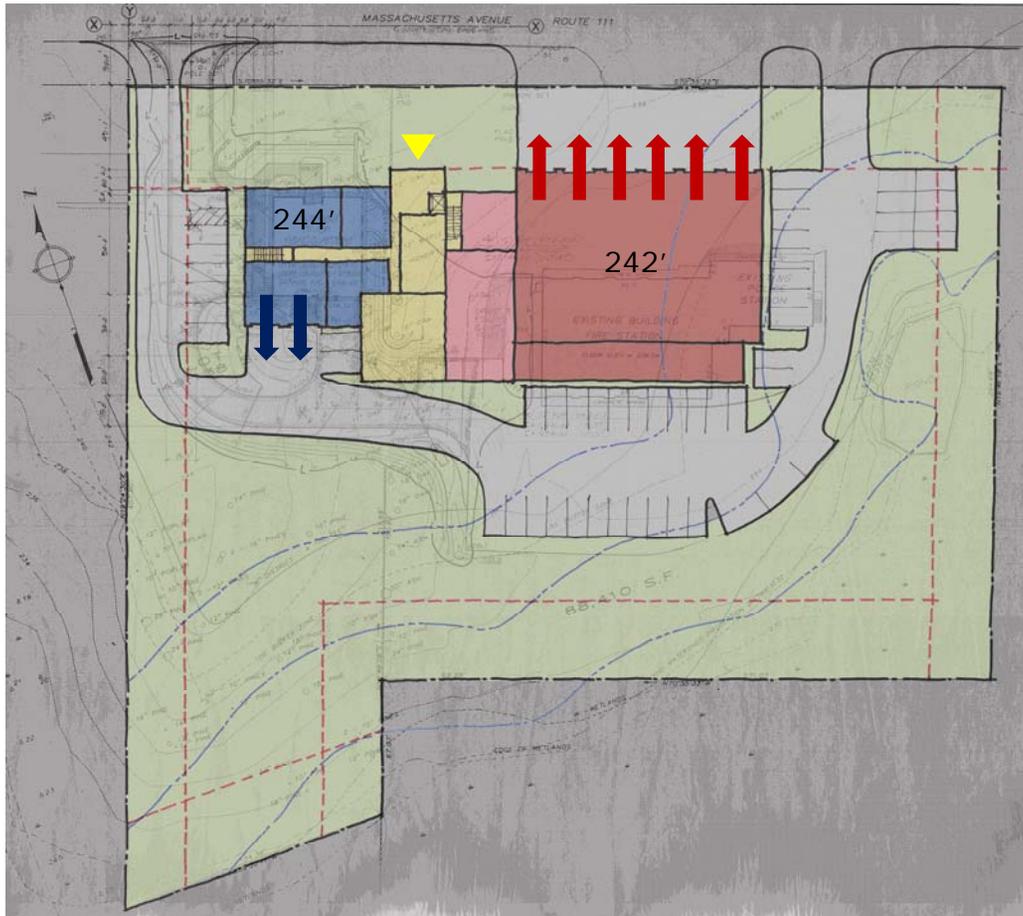


FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN

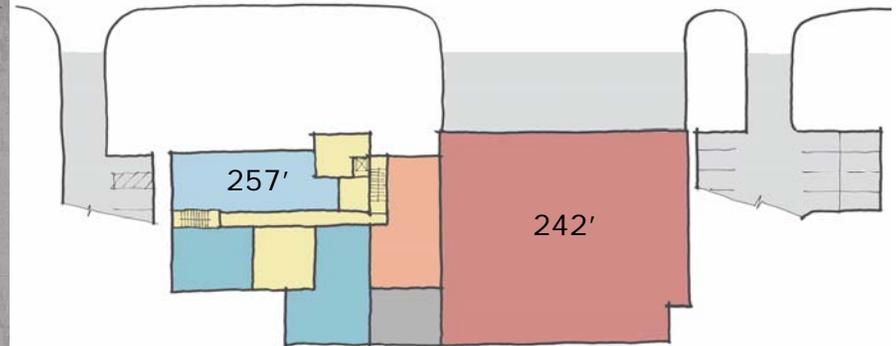
Objective: Combined facility & build new

- Demolish entire FD & PD
- PD Detention & Dispatch on same level
- Training on lower level
- Administration is on second floor
- All Apparatus Bays are preferred size
- Additions are not in 50' buffer
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 55

F – ALL NEW CONSTRUCTION ON TWO LEVELS



FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN



SECOND FLOOR

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

F – ALL NEW CONSTRUCTION ON TWO LEVELS



FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN

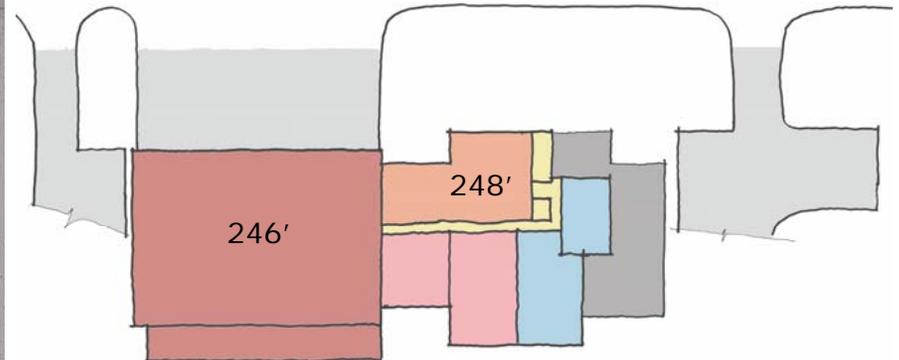
Objective: Combined facility & build new

- Demolish entire FD & PD
- PD Detention & Dispatch on same level
- Training on entry level
- Administration is on second floor
- All apparatus bays are preferred size
- Additions are not in 50' buffer
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 52

G – ALL NEW CONSTRUCTION ON TWO LEVELS – FLIPPED PLAN



FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN



SECOND FLOOR

- TRAINING/FITNESS/SUPPORT - SHARED
- DISPATCH/DETENTION/EVIDENCE - POLICE
- OPERATIONS - POLICE
- ADMINISTRATION - POLICE
- APPARATUS/SUPPORT - FIRE
- LIVING QUARTERS - FIRE
- ADMINISTRATION - FIRE

G – ALL NEW CONSTRUCTION ON TWO LEVELS – FLIPPED PLAN

FIRST FLR FD & PD WITH SHARED ENTRY / SITE PLAN

Objective: Combined facility & build new

- Demolish entire FD & PD
- PD Detention & Dispatch on same level
- Training on entry level
- Administration is on second floor
- All Apparatus Bays are preferred size
- Additions are not in 50' buffer
- New drive at rear of PD into septic
- Parking and driveways in buffers
- Parking Count: 49

NEXT STEPS

- Engineering Support
 - Civil and structural engineering assessment of existing facilities and their potential renovation and expansion versus construction of new facilities
- Cost
 - Range of probable cost based on program square footages



THANK YOU